



9200
DAE

D1510-1US (Patent)

In the United States Patent and Trademark Office

Applicant: Jay M. Short
U.S. Ser. No. 09/677,584 (conf. 3873)
Filing Date: September 30, 2000
Title: Whole cell engineering by mutagenizing a substantial portion of a starting genome, combining mutations, and optionally repeating

Examiner: Hankyel Park
Art Unit: 1648

Attention: Office of Petitions
Mail Stop Petition
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

RECEIVED
FEB 25 2005
TECH CENTER 1600/2900

Petition to Withdraw Holding of Abandonment

Dear Sir:

The Applicant hereby petitions the Commissioner for Patents under 37 C.F.R. § 1.181(a) from an examiner's holding of abandonment.

This application had been allowed on December 17, 2002 (see enclosed copies, including draftsperson's Notice). On March 5, 2003, the Applicant's courier hand-delivered the corrected drawings to Tech Center 1600/2900 (see the enclosed Transmittal Letter and postcard showing the dated confirmation stamp). The Applicant believes that the drawings were received by the Examiner, and that he called to confirm this (see the enclosed attorney notes of Dr. Jane Love).

At the same time, the Applicant filed other papers, including an Amendment under § 1.312 to conform to the corrected drawings, and sequence listing papers. The \$640 issue fee was then timely paid on March 6, 2003 (see enclosed Transmittal and postcard). Accordingly, the Applicant had submitted everything that was required by the Notice of Allowance.

Since then, the Applicant did not receive any further communication from the USPTO until the Applicant called the Examiner for a status inquiry on November 30, 2004. On December 1, 2004, the Examiner confirmed that the application had been abandoned because no drawings had been received by the Publications Department.

After numerous telephone calls to the Examiner between December 2004 and February 2005, the Examiner confirmed that the corrected drawings had been received, according to his notes in the file. However, it appeared that the file had been taken prematurely from his office, and that the corrected drawings were no longer in the file.

Ser. No. 09/677,584 (conf. 3873)
Pet. to With. Holding of Aband't
page 2

D1510-1

His supervisor's recommendation was to file this petition to withdraw the application from abandonment.

The Applicant has now prepared new corrected drawings and is submitting them herewith. The Applicant also requests that the previously filed Amendment under § 1.312 (copy enclosed) be entered, if not previously entered. In view of the substantial delay, through no fault by the Applicant, it respectfully requested that this application be withdrawn from abandonment and proceed to issuance on an expedited basis.

The Applicant does not consider this petition to require any fee (see M.P.E.P. § 711.03(c)(1) at 162). If required, however, authorization is hereby given to charge Deposit Account 50-0661 for any fees relating to this petition.

Please feel free to contact me with any questions at (858)-526-0348 or cfan@diversa.com.

Respectfully submitted,

Date: Feb. 15, 2005



Calvin Fan
Reg. No. 38,444
Attorney for Applicant

Diversa Corporation
P.O. Box 910550
San Diego, California 92191-0550
USPTO Customer No. 29062

FEB 25 2005

PART B - FEE(S) TRANSMITTAL

TECH CENTER 1600/2900

Complete and send this form, together with applicable fee(s), to: **Mail** Box ISSUE FEE
 Commissioner for Patents
 Washington, D.C. 20231
Fax (703)746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

28089 7590 12/17/2002

HALE AND DORR LLP
 300 PARK AVENUE
 NEW YORK, NY 10022

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Box Issue Fee address above, or being facsimile transmitted to the USPTO, on the date indicated below.

Nancy E. Gilmore (Depositor's name)

Nancy E. Gilmore (Signature)

March 6, 2003 (Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/677,584	09/30/2000	Jay M. Short	DIVER1510-1	3873

TITLE OF INVENTION: WHOLE CELL ENGINEERING BY MUTAGENIZING A SUBSTANTIAL PORTION OF A STARTING GENOME, COMBINING MUTATIONS, AND OPTIONALLY REPEATING

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$640	\$0	\$640	03/17/2003

EXAMINER	ART UNIT	CLASS-SUBCLASS
PARK, HANKYEL	1648	435-069100

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 Jane M. Love, Ph.D.

2 Hale and Dorr LLP

3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Diversa Corporation

San Diego, California

Please check the appropriate assignee category or categories (will not be printed on the patent) ☐ individual ☒ corporation or other private group entity ☐ government

4a. The following fee(s) are enclosed:

☒ Issue Fee

☐ Publication Fee

☒ Advance Order - # of Copies 10

4b. Payment of Fee(s):

☐ A check in the amount of the fee(s) is enclosed.

☐ Payment by credit card. Form PTO-2038 is attached.

☒ The Commissioner is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number 08-0219 (enclose an extra copy of this form).

Commissioner for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.

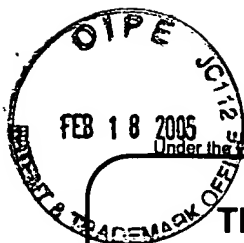
(Authorized Signature) Jane M. Love (Date) March 6, 2003
Jane M. Love, Ph.D.

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMIT THIS FORM WITH FEE(S)



PTO/SB/21 (09-04)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**TRANSMITTAL
FORM**

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

Application Number

09 1677,584

Filing Date

Sept. 30, 2000

First Named Inventor

Short

Art Unit

1648

Examiner Name

Hankyel Park

Attorney Docket Number

DIS10-1US

RECEIVED
FEB 25 2005
TECH CENTER 1600/2300**ENCLOSURES (Check all that apply)**

<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input checked="" type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	
<input type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Reply to Missing Parts/Incomplete Application	<input type="checkbox"/> Landscape Table on CD	
<input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53		

Remarks

~~Pet~~ Copies of Not. Allowance, 10p.
Corrected Drawings, 28p.
Copy of Amendment under 1.312
Return Postcard

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name			
Signature			
Printed name	Calvin Fah		
Date	Feb. 15, 2005	Reg. No.	38,444

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature			
Typed or printed name	Calvin Fah	Date	Feb. 15, 2005

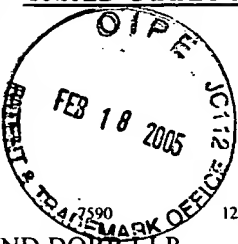
This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



UNITED STATES PATENT AND TRADEMARK OFFICE

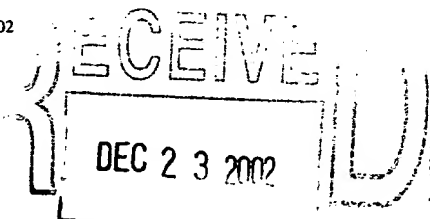
UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231
www.uspto.gov



NOTICE OF ALLOWANCE AND FEE(S) DUE

28089
HALE AND DORR LLP
300 PARK AVENUE
NEW YORK, NY 10022

12/17/2002



HALE & DORR

EXAMINER

PARK, HANKYEL

ART UNIT

CLASS-SUBCLASS

1648

435-069100

DATE MAILED: 12/17/2002

APPLICATION NO.	FILING DATE	INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/677,584	09/30/2000	NEW YORK Jay M. Short	DIVER1510-1	3873

TITLE OF INVENTION: WHOLE CELL ENGINEERING BY MUTAGENIZING A SUBSTANTIAL PORTION OF A STARTING GENOME, COMBINING MUTATIONS, AND OPTIONALLY REPEATING

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$640	\$0	\$640	03/17/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

☐ Applicant claims SMALL ENTITY status.
See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

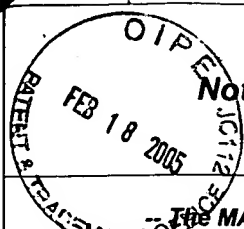
III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

HALE & DORR DOCKETING

Page 1 of 4

RE: 1127664-13
Action Date: March 17, 2003
Action to be Taken: Final
Docketed By: [Signature] On: 12/23/02



Notice of Allowability

Application No.

09/677,584

Examiner

Hankyel T. Park

Applicant(s)

SHORT, JAY

Art Unit

1648

RECEIVED
FEB 23 2005
TECH CENTER 1600/2880

The MAILING DATE of this communication appears on the cover sheet with the correspondence address--
All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 8/21/02.
2. ☒ The allowed claim(s) is/are 1-24.
3. ☐ The drawings filed on _____ are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- * Certified copies not received: _____.
5. ☒ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
 - (a) ☐ The translation of the foreign language provisional application has been received.
6. ☒ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE**

7. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
8. ☒ CORRECTED DRAWINGS must be submitted.
 - (a) ☒ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☒ hereto or 2) ☐ to Paper No. _____.
 - (b) ☐ including changes required by the proposed drawing correction filed _____, which has been approved by the Examiner.
 - (c) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No. _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the top margin (not the back) of each sheet. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

9. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1 <input type="checkbox"/> Notice of References Cited (PTO-892) | 2 <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3 <input checked="" type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 4 <input type="checkbox"/> Interview Summary (PTO-413), Paper No. _____ |
| 5 <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449), Paper No. <u>8</u> | 6 <input type="checkbox"/> Examiner's Amendment/Comment |
| 7 <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8 <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9 <input type="checkbox"/> Other |

Hankyel T. Park
Primary Examiner
Art Unit: 1648



U.S. DEPARTMENT OF COMMERCE - Patent and Trademark Office

Application No.

9/877,584

NOTICE OF DRAFTSPERSON'S
PATENT DRAWING REVIEW

RECEIVED
FEB 25 2005
TECH CENTER 1600/2900

and (insert date) 9-30-00 are:

by the Draftsperson under 37 CFR 1.84 or 1.152.

or by the Draftsperson under 37 CFR 1.84 or 1.152 for the reasons indicated below. The Examiner will require

corrected drawings when necessary. Corrected drawing must be submitted according to the instructions on the back of this notice.

37 CFR 1.84(a): Acceptable categories of drawings:

drawings are not acceptable until petition is granted.

Red ink is not permitted. Fig(s) _____

37 CFR 1.84(b)

is required. Fig(s) _____

may not be mounted. 37 CFR 1.84(e)

(half-tone). Fig(s) _____

37 CFR 1.84(c)

stable, strong, white, and durable.

Erasures, overwritings, interlineations,

machine marks not accepted. Fig(s) _____

paper is not acceptable (too thin).

37 CFR 1.84(f): Acceptable sizes:

17 cm (DIN size A4)

7.9 cm (8 1/2 x 11 inches)

heights not the same size.

height is not an acceptable size. Fig(s) _____

37 CFR 1.84(g): Acceptable margins:

5 cm Right 1.5 cm Bottom 1.0 cm

1/2 A4 Size

5 cm Right 1.5 cm Bottom 1.0 cm

1/2 8 1/2 x 11

margin. Fig(s) 5-18, 21, 24

Left (L)

Right (R) Bottom (B)

37 CFR 1.84(h)

revision may require revision to

ing changes.

37 CFR 1.84(h)(2)

drawings should show figure as one entity.

drawings should be labeled separately or properly.

drawings should not be labeled separately or properly.

37 CFR 1.84 (h)(3)

indicated for sectional portions of an object.

drawings should be noted with Arabic or

figures. Fig(s) _____

8. ARRANGEMENT OF VIEWS. 37 CFR 1.84(i)

Words do not appear on a horizontal, left-to-right fashion when page is either upright or turned so that the top becomes the right side, except for graphs. Fig(s) _____

9. SCALE. 37 CFR 1.84(k)

Scale not large enough to show mechanism without crowding when drawing is reduced in size to two-thirds in reproduction.

Fig(s) _____

10. CHARACTER OF LINES, NUMBERS, & LETTERS.

37 CFR 1.84(l)

Lines, numbers & letters not uniformly thick and well defined, clean, durable, and black (poor line quality).

Fig(s) _____

11. SHADING. 37 CFR 1.84(m)

Solid black areas pale. Fig(s) _____

Solid black shading not permitted. Fig(s) _____

Shade lines, pale, rough and blurred. Fig(s) _____

12. NUMBERS, LETTERS, & REFERENCE CHARACTERS.

37 CFR 1.84(p)

Numbers and reference characters not plain and legible.

Fig(s) _____

Figure legends are poor. Fig(s) _____

Numbers and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p)(1)

Fig(s) _____

English alphabet not used. 37 CFR 1.84(p)(2)

Figs _____

Numbers, letters and reference characters must be at least .32 cm (1/8 inch) in height. 37 CFR 1.84(p)(3)

Fig(s) _____

13. LEAD LINES. 37 CFR 1.84(q)

Lead lines cross each other. Fig(s) _____

Lead lines missing. Fig(s) _____

14. NUMBERING OF SHEETS OF DRAWINGS. 37 CFR 1.84(t)

Sheets not numbered consecutively, and in Arabic numerals beginning with number 1. Sheet(s) _____

15. NUMBERING OF VIEWS. 37 CFR 1.84(u)

Views not numbered consecutively, and in Arabic numerals, beginning with number 1. Fig(s) _____

16. CORRECTIONS. 37 CFR 1.84(w)

Corrections not made from prior PTO-948 dated _____

17. DESIGN DRAWINGS. 37 CFR 1.152

Surface shading shown not appropriate. Fig(s) _____

Solid black shading not used for color contrast.

Fig(s) _____

J. CHASE DATE 11-18-02 TELEPHONE NO. 703 305 8430

TO PAPER NO. 10



PATENT
Docket No. 112766-235

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Jay M. Short Examiner: Park, Hankyel T.
U.S. Serial No.: 09/677,584 Art Unit: 1648
Filing Date: September 30, 2000
For: WHOLE CELL ENGINEERING BY MUTAGENIZING A
SUBSTANTIAL PORTION OF A STARTING GENOME,
COMBINING MUTATIONS AND OPTIONALLY REPEATING

RECEIVED
FEB 25 2005
TECH CENTER 1600/2900

Date of Notice of Allowance December 17, 2002

Confirmation No. 3873

TRANSMITTAL LETTER

BY HAND DELIVERY

Assistant Commissioner for Patents
Washington, D.C. 20231

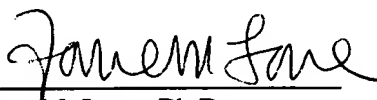
Sir:

Enclosed are the following for appropriate action:

1. Amendment After Notice of Allowance Pursuant to 37 C.F.R. § 1.312;
2. Twenty-eight (28) sheets of formal drawings (Figures 1-24);
3. Communication to Comply with Requirement;
4. Sequence Listing in Computer Readable Form;
5. Paper Copy of Sequence Listing; and
6. Return Postcard.

Respectfully submitted,

Date: March 5, 2003


Jane M. Love, Ph.D.
Registration No. 42,812
Attorney for Applicants

HALE AND DORR LLP
300 Park Avenue
New York, New York 10022
(212) 937-7233 (telephone)
(212) 937-7300 (facsimile)

Transmittal Letter
U.S. Serial No.: 09/677,584
Filed: September 30, 2000



**Whole Cell Engineering by Mutagenizing a Substantial Portion
of a Starting Genome Combining Mutations and Optionally**
Title: **Repeating**

Serial/Patent #: **09/677584** 1st Inventor: _____ Applicant: **Short**

The following have been received by the US Patent and Trademark Office on the date stamped hereon.

- ☐ Express Mail Label No. _____ ☐ Fee Transmittal Form ☐ Transmittal Form
- ☐ Certificate of Mailing - 37 CFR 1.8 (a) ☐ Deposit Account Authorization
- ☐ Applicant Claims Small Entity Status ☐ Copy of/☐ Response to: *Notice to File Missing Parts*
- ☐ Provisional Application Cover Sheet ☐ Preliminary Amendment
- ☐ New Application (_____ Design) ☐ IDS, PTO-1449, and _____ publications (Supl. _____)
- Specification - Total Pages _____ ☒ Sequence Listing: ☐ CD-ROM ☒ Disc (CRF) ☒ Paper
- ☒ Formal Drawings Total Sheets **28** ☐ Petition for _____ month extension of time
- ☐ CPA application ☐ RCE application ☐ Response to Office Action / Restriction Req.
- ☐ Oath of Declaration: _____ newly executed ☐ Notice of Appeal
- _____ unsigned; _____ copy from priority case ☐ Appellant's Brief (triplicate) (☐ Reply Brief)
- ☐ Assignment and Recordation Form ☐ Issue Fee + _____ soft copies ☐ Maintenance Fee
- ☐ Application Data Sheet (Initial Information Data Sheet)
- ☐ Continuation ☐ Divisional ☐ Continuation-in-Part of App No: _____
- ☒ Other: **Statement Under 37 CFR 1.821-1.825**
- ☒ Other: **Amendment Under 37 CFR 1.312**, **28** sheets formal
- Mailing Date: **3/4/03** CM No. **DIV-1510-1** Filed By: **JML/ns** **Drawings**
(112766.235)

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hand deliver it (SL & 312 Amd)
he ^{will} enter it tomorrow in the case
make sure its in compliance
case will come next week ~ to his office
send formal drawings at same time

then he will send it on to issue

Ex Park

3/6/03

703-305-7255

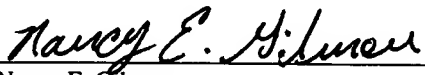
called - he confirmed that SL, 312 Amd &
drawings were submitted -- will enter them
go ahead and pay issue fee

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Jay M. Short Examiner: Park, Hankyel T.
U.S. Serial No.: 09/677,584 Art Unit: 1648
Filing Date: September 29, 2000
For: WHOLE CELL ENGINEERING BY MUTAGENIZING A
SUBSTANTIAL PORTION OF A STARTING GENOME,
COMBINING MUTATIONS, AND OPTIONALLY REPEATING

Date of Notice of Allowance: December 17, 2002

Confirmation No.: 3873

<u>Certificate of First Class Mailing</u>	
I hereby certify that this correspondence is being deposited this date with the U.S. Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Box: Issue Fee, Washington, D.C. 20231.	
Date <u>3/6/03</u>	 Nancy E. Gilmore

TRANSMITTAL LETTER

Commissioner for Patents
Washington, D.C. 20231
BOX: Issue Fee

Sir:

Enclosed are the following for appropriate action:

1. Issue Fee Transmittal paper;
2. Return Postcard.

Respectfully submitted,



Jane M. Love, Ph.D.
Registration No. 42,812
Attorney for Applicants

Date: March 6, 2003

HALE AND DORR LLP
300 Park Avenue
New York, New York 10022
(212) 937-7233 (telephone)
(212) 937-7300 (facsimile)

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**Whole Cell Engineering by Mutagenizing a Substantial Portion
of a Starting Genome, Combining Mutations, and Optionally
Title: Repeating**

Serial/Patent #: 09/677584 1st Inventor: _____ Applicant: Short

The following have been received by the US Patent and Trademark Office on the date stamped hereon.

- ☐ Express Mail Label No. _____ ☐ Fee Transmittal Form ☐ Transmittal Form
- ☒ Certificate of Mailing - 37 CFR 1.8 (a) ☒ Deposit Account Authorization **\$640.00**
- ☐ Applicant Claims Small Entity Status ☐ Copy of/☐ Response to: *Notice to File Missing Parts*
- ☐ Provisional Application Cover Sheet ☐ Preliminary Amendment
- ☐ New Application (_____ Design) ☐ IDS, PTO-1449, and _____ publications (Supl. _____)
- Specification - Total Pages _____ ☐ Sequence Listing: ☐ CD-ROM ☐ Disc (CRF) ☐ Paper
- Formal Drawings - Total Sheets _____ ☐ Petition for _____ month extension of time
- ☐ CPA application ☐ RCE application ☐ Response to Office Action / Restriction Req.
- ☐ Oath of Declaration: _____ newly executed ☐ Notice of Appeal
- _____ unsigned; _____ copy from priority case ☐ Appellant's Brief (triplicate) (☐ Reply Brief)
- ☐ Assignment and Recordation Form ☒ Issue Fee + 10 soft copies / ☐ Maintenance Fee
- ☐ Application Data Sheet (Initial Information Data Sheet)
- ☐ Continuation ☐ Divisional ☐ Continuation-in-Part of App No: _____
- ☐ Other: _____
- ☐ Other: _____

Mailing Date: 3/6/03 CM No. DIV-1510-1 Filed By: JML/ng
(112766.235)

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- ☐ New Application (_____ Design) ☐ IDS, PTO-1449, and _____ publications (Supl. _____)
- Specification - Total Pages _____ ☐ Sequence Listing: ☐ CD-ROM ☐ Disc (CRF) ☐ Paper
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- ☐ Continuation ☐ Divisional ☐ Continuation-in-Part of App No: _____
- ☐ Other: _____
- ☐ Other: _____

Mailing Date: 3/6/03 CM No. DIV-1510-1 Filed By: JML/ng
(112766.235)